

Title (en)
NOVEL SURFACTANTS BASED ON POLY-(ALKYLENE CARBONATE)S

Publication
EP 0338396 A3 19910102 (EN)

Application
EP 89106473 A 19890412

Priority
US 18458588 A 19880421

Abstract (en)
[origin: EP0338396A2] A polyether polycarbonate block copolymer nonionic surface-active agent and method for making the same. The polyether polycarbonate surface active agent is comprised of a hydrophilic portion comprised of a polymer selected from the group consisting of a polyoxyalkylene polyether, a saccharide, a saccharide polyoxyalkylenate, a polycarbonate having a carbon dioxide content of from about 1 to 15 molar percent and mixtures thereof and a hydrophobic portion comprising alkylene and carbonate units arranged in alternating or random order to form a poly(alkylene carbonate) having a total carbon dioxide content of from about 25 to 50 molar percent and a total molecular weight of from about 300 to 10,000. The hydrophobic portion is bonded to the hydrophilic portion at each side of a reactive hydrogen. The surface active agent is prepared by polymerizing the hydrophilic portion with the hydrophobic portion in a weight ratio of about 10:90 to 90:10.

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C08G 63/62; **B01F 17/00**

IPC 8 full level
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CPC (source: EP US)
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Citation (search report)
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• [AD] US 4665136 A 19870512 - SANTANGELO JOSEPH G [US], et al
• [Y] DIE MAKROMOLEKULARE CHEMIE, vol. 178, no. 1, January 1977, pages 241-246, Hüthig & Wepf Verlag, Basel, CH; H. KOINUMA et al.: "Copolymerization of carbon dioxide and oxetane"

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